

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

Anita Wessling,

Complainant

vs.

Union Electric Company d/b/a Ameren Missouri

Respondent

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File No. EC-2018-0089

STAFF'S SUPPLEMENTAL REPORT

COMES NOW the Staff of the Missouri Public Service Commission, by and through the undersigned counsel, and for its *Supplemental Report* hereby states:

1. On September 28, 2017, Complainant filed her *Complaint* in this docket.
2. On February 13, 2018, Staff filed its *Report*.
3. On March 19, 2018, Complainant filed a Notice Regarding Power Outage for an outage experienced on March 2, 2018.
4. On April 6, 2018, Staff filed its *Proposed Procedural Schedule*.
5. On April 9, 2018, the Commission issued its *Order Setting Partial Procedural Schedule and Notice of Conference*. The *Order* directed Respondent to file a response to Complainant's March 19, 2018 *Notice* by April 13, 2018, and it directed Staff to file a supplemental report by April 23, 2018.
6. Respondent filed *Ameren Missouri's Response to Notice Regarding Power Outage* on April 13, 2018.
7. As discussed in Staff's Memorandum, attached hereto and incorporated by reference, Staff determined there was a momentary outage on March 2, 2018, but

Staff was unable to determine the cause of the outage and notes that it appears the Trip Saver worked as intended to limit the number of customers that would have otherwise experienced an outage. Staff's investigation found no violation of the Company's tariffs, Commission rules, or Missouri statutes with regard to the Complainant's March 2, 2018 outage.

WHEREFORE, Staff respectfully submits its *Supplemental Report* for the Commission's consideration.

Respectfully submitted,

/s/ Marcella L Forck

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Attorney for the Staff of the
Public Service Commission
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CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing have been mailed, hand-delivered, transmitted by facsimile or electronically mailed to all counsel of record this 23rd day of April, 2018.

/s/ Marcella L. Forck

Memorandum

TO: Missouri Public Service Commission Official Case File
File No. EC-2018-0089 – Anita Wessling, Complainant v. Union Electric
Company d/b/a/ Ameren Missouri, Respondent

FROM: Cedric Cunigan – Operational Analysis Department / Engineering Analysis Unit
Noumvi Ghomsi – Operational Analysis Department / Engineering Analysis Unit

/s/ Dan Beck / 4/23/2018 /s/ Marcella L Forck / 4/23/2018
Engineering Analysis Unit / Date Staff Counsel's Office / Date

SUBJECT: Staff Memorandum

DATE: April 23, 2018

STAFF SUPPLEMENTAL REPORT

PROCEDURAL HISTORY

On March 19, 2018, Ms. Anita Wessling (“Complainant” or “Customer”) filed a Notice Regarding Power Outage for a March 2, 2018 outage in the Complaint Case, Case No. EC-2018-0089, that involves the Complainant and Union Electric d/b/a Ameren Missouri (“Company” or “Respondent”) dated March 14, 2018. On March 21, 2018, the Missouri Public Service Commission (“Commission”) issued its Order Denying Motion to Dismiss and Directing Filing which directed Staff to file a procedural schedule no later than April 6, 2018. Staff filed a Proposed Procedural Schedule on April 6, 2018. The Commission issued its Order Setting Partial Procedural Schedule and Notice of Conference on April 9, 2018. The Order directed the Respondent to file a response by April 13, 2018 and Staff to file a Supplemental Report by April 23, 2018. The Respondent filed Ameren Missouri’s Response to Notice Regarding Power Outage (“Response”) on April 13, 2018.

INVESTIGATION

Staff reviewed the Company's Response and submitted two Data Requests 0005 and 0006. The Company's responses are available in EFIS (Electronic Filing Information System). Staff also contacted the Complainant via phone on April 16, 2018 to gather additional information.

The Respondent did not find a record of an outage in the eADMS (electronic advanced distribution management system) for the Complainant's address, or for the SCADA (supervisory control and data acquisition) system for the Droste Substation. The Respondent did find an S&C Trip Saver upstream from the Complainant's address that operated once since being placed in service January 19, 2018.¹ This could be related to the outage the Complainant experienced on March 2, 2018. In response to Data Request 0006, Respondent provided annual SAIFI² values for St. Charles District, Droste Feeder 544-56 (which supplies power to Complainant's address), and the Complainant's address specifically. Values for 2018 were taken from the first quarter. SAIFI values are calculated for each aspect of the electric system. For example, a feeder's SAIFI value will differ from a Substation's SAIFI value, much like a customer's SAIFI value will differ from a Substation's with respect to the total number of customers being served. So for years 2015 – 2017 the Customer's SAIFI, which averaged 2.33 for the three year period, is higher than the Droste-Feeder 544-56 and the St. Charles District, which averaged 0.49 and 0.45 for the three year period. For comparison purposes, IEEE reported a median SAIFI value of 1.1 for electric utilities surveyed in the United

¹ Ameren Missouri's Response to Notice Regarding Power Outage paragraphs 4,5, and 6.

² 4 CSR 240-23.010 (1)(A) provides the following definition: System Average Interruption Frequency Index (SAIFI), which reflects the average frequency of service interruptions in number of occurrences per customer and is defined as the total number of customer interruptions for the period covered divided by the total number of customers served

States and Canada in the IEEE Benchmark Year 2017 report.³ Staff would also note that all SAIFI values have been adjusted to exclude major events. The St. Charles area had several major storm events during that three year period that also caused outages.

In an April 16, 2018 phone call with Complainant, the Complainant stated that the outage lasted for several minutes, but was not able to give a more specific timeframe. Based on the Company's Response and the Complainant's description that the outage lasted several minutes, the March 2, 2018 outage appears to be a momentary outage.⁴ Staff asked the Complainant if she notified the Company of the outage when it occurred and the Complainant said no, she only provided the notice filed in this case. Due to the short duration of the outage, limited records available, and time lag in the awareness of the outage (17 days), Staff is unable to determine the cause of the outage. Staff emailed Complainant twice, on April 16, 2018 and April 17, 2018, to provide additional information that the Complainant requested during the April 16, 2018 phone call. The emails are attached.

Conclusion

The Complainant most likely experienced a momentary outage on March 2, 2018, but Staff is unable to determine the cause of the outage. As Respondent stated in their Response, the Trip Saver worked as intended and limited the extent of customers that would have experienced an outage. The Respondent also plans to install animal guards on currently unguarded transformers by the 2nd quarter of 2018 as observed during an unmanned aerial patrol performed by the Company. The Company has completed an additional vegetation management patrol

³ <http://grouper.ieee.org/groups/td/dist/sd/doc/Benchmarking-Results-2016.pdf>

⁴ IEEE Standard 1366-2003- 3 Definitions 3.15 momentary interruption event: An interruption of duration limited to the period required to restore service by an interrupting device. NOTE—Such switching operations must be completed within a specified time of 5 min or less. This definition includes all reclosing operations that occur within five minutes of the first interruption. For example, if a recloser or circuit breaker operates two, three, or four times and then holds (within 5 min of the first operation), those momentary interruptions shall be considered one momentary interruption event.

ahead of the regular mid-cycle patrol for the 3rd quarter of 2018 for the remaining Droste Substation Circuits. Staff did not find any violation of the Company's tariffs, Commission rules, or Missouri statutes with regard to the Complainant's March 2, 2018 outage.

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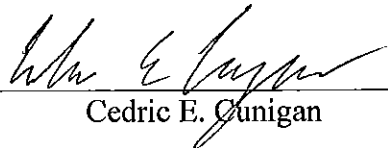
File No. EC-2018-0089

AFFIDAVIT OF CEDRIC E. CUNIGAN

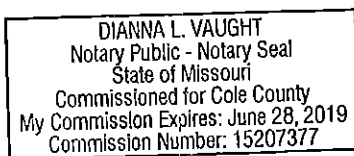
STATE OF MISSOURI)
) ss
COUNTY OF COLE)

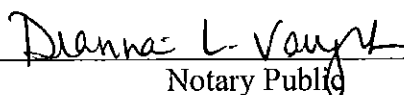
COMES NOW, Cedric E. Cunigan and on his oath declares that he is of sound mind and lawful age; that he contributed to the attached Staff Recommendation in Memorandum form; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.


Cedric E. Cunigan

Subscribed and sworn to be this 23rd day of April, 2018.




Notary Public

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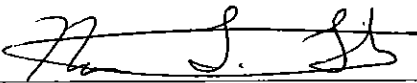
File No. EC-2018-0089

AFFIDAVIT OF NOUMVI GHOMSI

STATE OF MISSOURI)
) ss
COUNTY OF COLE)

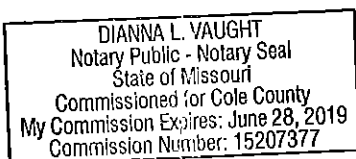
COMES NOW, Noumvi Ghomsi and on his oath declares that he is of sound mind and lawful age; that he contributed to the attached Staff Recommendation in Memorandum form; and that the same is true and correct according to his best knowledge and belief.

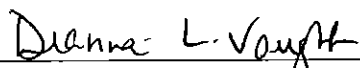
Further the Affiant sayeth not.



Noumvi Ghomsi

Subscribed and sworn to be this 23rd day of April, 2018.





Notary Public